

BAV Mitteilungen

Beobachtungsergebnisse der
Berliner Arbeitsgemeinschaft für Veränderliche Sterne e.V. (B A V)

(B A V - M I T T E I L U N G E N N R . 5 2)

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In this 22th compilation of BAV results of observations are given from the years 1988 and 1989 for 880 observed minima and maxima on 338 variables stars including 113 photoelectric results.

Die vorliegenden Ergebnisse wurden überwiegend in den Jahren 1988 und 1989 gewonnen. Insgesamt wurden 880 Ergebnisse aus rund 16.400 Einzel-schätzungen bzw. -messungen von 45 Beobachtern abgeleitet. Es werden 247 beobachtete Minima an 96 Bedeckungssternen, 233 Maxima von 102 RR-Lyrae- und Delta Cephei Sternen, 199 Ergebnisse von 94 Mirasternen, 111 Ergebnisse von 21 Halbbregelmäßigen und RV Tauri Sternen, sowie 90 Ergebnisse von 25 Eruptiven mitgeteilt.

B E O B A C H T E R :

AG	F. Agerer	Zweikirchen	MZ	G. Maintz	Bonn
AW	D. Altweier	Leverkusen	OT	M. Ott	Mainz
BD	W. Blendin	Wächtersbach	PI	J. Pietz	Erfstadt
BK	C. Birkner	Hagen	PS	A. Paschke	Rueti <CH>
BR	W. Braune	Berlin	QU	W. Quester	Esslingen
EP	A. Epple	Stuttgart	RI	P. Ringe	Dortmund
FR	P. Frank	Velden	RZ	W. Renz	Grafenhausen
GE	R. Geckeler	Saulgau	SC	E. Schröder	Bremen
GI	D. Girrbach	Böblingen	SD	J. Schmidt	Mainz
HF	K. Hopf	Hof	SF	K. Seifert	Hamburg
HH	B. Hassforther	Heidelberg	SG	P. Sterzinger	Wien <AU>
HO	P. Hoffmann	Hannover	SH	O. Schall	Dortmund
KB	W. Kriebel	Moosburg	SM	A. Sturm	Köln
KI	W. Kleikamp	Marl	SO	R. Schertler	St. Peter <AU>
KM	G. Keim	Konstanz	SU	H. Schubert	Grosshansdorf
KO	B. Koch	Neu-Ulm	SV	H. Strüver	Duisburg
KR	G. Krisch	Bockenem	TH	A. Thomas	Mainz
KT	S. Korth	Monheim	VG	K. Vogel	Bielefeld
MK	G. Marekfia	Saarbrücken	VI	H. Vielmetter	Darmstadt
MN	S. Malinowski	Saulgau	WC	M. Wieck	Nürnberg
MO	M. Moeller	Timmendf. Str.	WU	E. Wunder	Rückersdorf
MS	W. Moschner	Lennestadt	WZ	W. Wenzel	Berlin
MX	H. Marx	Kornthal			

Berliner Arbeitsgemeinschaft für veränderliche Sterne e. V. (BAV)
Zentrale der deutschen Veränderlichenbeobachter

Neben Privatinstrumenten wurden Instrumente von Volkssternwarten sowie der BAV eingesetzt. Alle angegebenen Zeiten sind heliozentrisch korrigiert. Die 113 lichtelektrischen Beobachtungen wurden von 5 Beobachtern gewonnen, die Geräte und Filter hierfür sind in den jeweiligen Bemerkungen angegeben. Die Berechnungen für die Kurzperiodischen wurden von Joachim Hübscher vorgenommen. Der BAV liegen die Lichtkurven mit Einzelschätzungen und der Auswertung vor.

Für die Unterstützung unserer Arbeit danken wir besonders der AKADEMIE DER WISSENSCHAFTEN DER UdSSR, dem OBSERVATORIUM ASTRONOMICZNE KRAKOW der Universiteyt Jagiellonski, sowie der IAU - Kommission 27.

1 . B E D E C K U N G S V E R A E N D E R L I C H E

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Stern		Min JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.	
RT	And	47166.400		EP	-0.005	85			
		47405.399		KB	+0.001	85			
XZ	And	47565.333		BD	+0.007	85			
AB	And	47444.363		KB	+0.003	85			
DS	And	47469.300	:	F MS	KI	-0.008	85	5)	
OO	Aql	47330.486		BK		-0.005	85		
		47362.418		F MS	KI	-0.001	85	5)	
		47362.430		GI		+0.011	85		
		47380.4049	/	LV	AG	-0.0046	85		2)
		47380.4049	/	LV	AW	-0.0046	85		1)
		47380.4049	/	LB	AW	-0.0046	85		1)
		47381.4181	/	LV	AG	-0.0050	85		2)
		47381.4181	/	LB	AG	-0.0050	85		2)
		47397.395	:		KB	+0.008	85		
		47413.350	/	F	MS	KI	-0.001	85	5)
		47432.358			KB	+0.003	85		
		47464.277	:	F	MS	KI	-0.006	85	5)
		47464.2828		LV	AW	-0.0002	85		1)
		47464.2870		LB	AW	+0.0040	85		1)
V346	Aql	47349.519		KB		-0.001	85		
		47369.432		KB		-0.003	85		
		47380.490		F MS	KI	-0.008	85	5)	
		47380.494			EP	-0.004	85		
		47380.495			KB	-0.003	85		
		47390.4535		LB	AW	-0.0019	85		1)
		47390.4535		LV	AW	-0.0019	85		1)
SS	Ari	47469.3368		LB	AW	-0.0711	85	1)	
		47469.3410		LV	AW	-0.0669	85	1)	
		47562.2991		LV	AW	-0.0814	85	1)	
		47562.3074		LB	AW	-0.0731	85	1)	
		47595.3627	/	LB	AG	-0.1061	85	+0.0313	11) 2)
AH	Aur	47595.3669	/	LV	AG	-0.1019	85	+0.0355	11) 2)
		47469.623	:	F MS	KI	+0.123	85	+0.030	11) 5)

Stern		Min JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2		Bem.
AP	Aur	47541.371	F	MS KI	+0.138	85	+0.039	11)	5)
		47566.413	F	MS KI	+0.130	85	+0.030	11)	5)
		47579.516	F	MS KI	+0.139	85	+0.038	11)	5)
		47586.3476	LB	AG	+0.1388	85	+0.0369	11)	2)
		47586.3476	LV	AG	+0.1388	85	+0.0369	11)	2)
		47592.3250 /	LV	AG	+0.1384	85	+0.0360	11)	2)
		47592.3256 /	LB	AG	+0.1390	85	+0.0366	11)	2)
BF	Aur	47173.404		PI	+0.005	85			
EP	Aur	47503.498	F	VI	-0.022	85			6)
		47561.433	F	MS KI	-0.006	85			5)
		47567.345	F	MS KI	-0.004	85			5)
HL	Aur	47560.384	F	MS KI	-0.008	85		5)	
IM	Aur	47530.312		PI	-0.027	85			
IU	Aur	47173.360 /		PI	-0.017	85			
		47174.291		PI	+0.008	85			
		47596.3430	L	RI SH	-0.0139	85			4)
TY	Boo	47553.612	F	MS KI	+0.042	85			5)
		47554.567	F	MS KI	+0.045	85			5)
		47612.6025	LV	AG	+0.0427	85			2)
		47612.6032	LB	AG	+0.0434	85			2)
		47276.414	F	VI	+0.026	85	+0.007	12)	6)
VW	Boo	47286.503 /	F	VI	+0.016	85	-0.002	12)	6)
		47641.5744	LB	AG	+0.0691	85			2)
AC	Boo	47641.5744	LV	AG	+0.0691	85			2)
		47671.5346	LB	AG	+0.0728	85			2)
		47671.5354	LV	AG	+0.0736	85			2)
		47672.4135 /	LB	AG	+0.0707	85			2)
		47672.4162 /	LV	AG	+0.0734	85			2)
		47667.4544	LV	AG	-0.0008	85			2)
VZ	CVn	47667.4544	LB	AG	-0.0008	85			2)
		46521.493		SD	+0.009	85			
R	CMA	46521.493		SD	+0.009	85			
YY	CMI	47592.4403 /	L	RI SH	+0.0159	85			4)
AM	CMI	47565.309 /		BD	-0.027	85			
		47592.304 :		BD	-0.040	85			
RZ	Cas	47388.462		OT	+0.010	85			
		47394.428		SF	+0.000	85			
		47436.267		AW	+0.005	85			
		47473.339		BD	+0.025	85			
		47553.398		MZ	+0.002	85			
		47450.304		SO	+0.002	85			
		47470.2891	LV	AW	-0.0092	85			1)
AB	Cas	47470.2898	LB	AW	-0.0085	85			1)
		47207.385		KO	+0.008	85			
		47613.350		BD	+0.012	85			
DN	Cas	45653.461 /	F	FR	+0.023	85		5)	
PV	Cas	47529.465 /	F	FR	-0.024	85			5)
		47538.233 /:	F	FR	-0.009	85			5)
		47564.468 /	F	FR	-0.031	85			5)
V375	Cas	47391.441	F	MS KI	-0.008	85	+0.038	8)	5)
		47380.481		EP	+0.005	85			
XX	Cep	47415.523		KB	-0.013	85			
		47412.400		PI	-0.006	85			
		47592.315		SF	-0.002	85			
EO	Cep	47646.566	F	MS KI	+0.160	85		5)	
GS	Cep	47411.485 /	F	FR	-0.263	85			5)
		47415.549 /	F	FR	-0.059	85			5)
NN	Cep	47540.316 /	F	FR	+0.000	85		5)	

Stern		Min	JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.
NY	Cep	47540.	538	:	F FR	-0.019	85		5)
VV	Cet	47438.	5248		LV AG	+0.0566	85		2)
		47473.	5339		LV AG	+0.0656	85		2)
		47473.	5353		LB AG	+0.0670	85		2)
XY	Cet	46773.	496		SD	+0.016	85		
Y	Cyg	46362.	343		SD	+0.096	85		
BR	Cyg	47381.	419		KB	-0.008	85		
		47469.	361		BD	-0.015	85		
		47473.	369		BD	-0.005	85		
GO	Cyg	47388.	508		PI	+0.031	85		
		47452.	388		PI	+0.030	85		
V466	Cyg	47311.	440		F MS KI	-0.004	85		5)
		47368.	503		F MS KI	+0.005	85		5)
V680	Cyg	47412.	408	/	F FR	+0.043	85	+0.015 8)	5)
V687	Cyg	47267.	541		F MS KI	-0.008	85		5)
V836	Cyg	47353.	443		PI	-0.002	85		
V961	Cyg	47664.	438	:	F MS KI	-0.072	85		5)
V1061	Cyg	47355.	442		PI	-0.016	85		
		47362.	4766		LB AW	-0.0209	85		1)
		47362.	4766		LV AW	-0.0209	85		1)
V1083	Cyg	47592.	615		F MS KI	-0.033	85		5)
TZ	Dra	47387.	576		EP	-0.013	85		
AI	Dra	47330.	431		KB	-0.002	85		
		47336.	431		GI	+0.004	85		
		47379.	582		EP	-0.003	85		
		47379.	584		OT	-0.001	85		
		47391.	576		EP	+0.003	85		
		47450.	313		SO	-0.002	85		
		47613.	353		SO	-0.001	85		
AX	Dra	47565.	290		F MS KI	-0.043	85	-0.003 8)	5)
		47592.	560		F VI	-0.045	85	-0.004 8)	6)
		47596.	537		F VI	-0.045	85	-0.005 8)	6)
CV	Dra	47321.	4982		LB AG	+0.0000		+0.0005 13)	2)
		47321.	4989		LV AG	+0.0000		+0.0012 13)	2)
		47342.	4967		LV AG	+0.0000		-0.0002 13)	2)
		47592.	6219		LB AG	+0.0000		-0.0116 13)	2)
		47592.	6224		LV AG	+0.0000		-0.0111 13)	2)
		47640.	4841		LV AG	+0.0000		-0.0151 13)	2)
		47640.	4883		LB AG	+0.0000		-0.0109 13)	2)
		47648.	5162		LV AG	+0.0000		-0.0121 13)	2)
		47648.	5183		LB AG	+0.0000		-0.0100 13)	2)
		47665.	4982		LB AG	+0.0000		-0.0147 13)	2)
		47665.	4984		LV AG	+0.0000		-0.0145 13)	2)
		47666.	4260		LB AG	+0.0000		-0.0133 13)	2)
		47666.	4261		LV AG	+0.0000		-0.0132 13)	2)
GW	Gem	47579.	355		F MS KI	+0.008	85		5)
RX	Her	47354.	505		SF	-0.008	85		
		47362.	514	/	RZ	-0.002	85		
		47395.	429		RZ	+0.009	85		
		47436.	3278		LV AW	+0.0006	85		1)
		47436.	3292		LB AW	+0.0020	85		1)
SZ	Her	47391.	368		F FR	-0.009	85		5)
TX	Her	47378.	3741		LV AG	+0.0116	85		2)
		47378.	3748		LB AG	+0.0123	85		2)
		47380.	434		SF	+0.012	85		
		47380.	441		PI	+0.019	85		
		47381.	464	/	PI	+0.012	85		

Stern		Min	JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.	
TX	Her	47413.3894		LB	AW	+0.0102	85		1)	
		47413.3915		LV	AW	+0.0123	85		1)	
		47654.393			SO	+0.016	85			
AK	Her	47326.513			BK	+0.014	85			
		47353.466			PI	-0.011	85			
		47413.339			SC	+0.006	85			
LT	Her	47653.5136		LB	AG	-0.0292	85		2)	
		47653.5150		LV	AG	-0.0278	85		2)	
PW	Her	47329.507		F	VI	+0.162	85		6)	
V728	Her	47322.3914	/	LV	AG	-0.0406	85	+0.0022 14)	2)	
		47322.3928	/	LB	AG	-0.0392	85	+0.0036 14)	2)	
SW	Lac	46338.377	/		SH	+0.000	85			
		47373.492			PI	-0.012	85			
		47426.406			GI	-0.017	85			
		47462.333			KB	-0.011	85			
		47470.350			MZ	-0.012	85			
		47470.355			KB	-0.007	85			
		47470.503	/		SF	-0.019	85			
		47477.2456	/		LV	AG	-0.0114	85		2)
		47477.2463	/		LB	AG	-0.0107	85		2)
		47486.381			SF	-0.017	85			
		47487.348			SF	-0.012	85			
		47495.366			SF	-0.012	85			
		47530.327			MZ	-0.009	85			
CM	Lac	47473.305			BD	+0.009	85			
		47477.2869		LB	AG	+0.0338	85		2)	
V364	Lac	47477.2869		LV	AG	+0.0338	85		2)	
Y	Leo	47596.340			BD	-0.008	85			
UV	Leo	47267.366			HO	-0.007	85			
		47604.325	/		BD	+0.004	85			
VZ	Leo	47555.382		F	MS	MS	85		5)	
		47592.441		F	MS	MS	85		5)	
XX	Leo	47568.515	:	F	MS	MS	85		5)	
XY	Leo	47609.3638	/	LV	AG	+0.0186	85		2)	
		47609.3639	/	LB	AG	+0.0187	85		2)	
		47612.3473		LB	AG	+0.0191	85		2)	
		47612.3476		LV	AG	+0.0194	85		2)	
		47612.4896	/	LB	AG	+0.0193	85		2)	
		47612.4905	/	LV	AG	+0.0202	85		2)	
		47613.3410	/	LV	AG	+0.0185	85		2)	
		47613.3417	/	LB	AG	+0.0192	85		2)	
		47613.4837		LV	AG	+0.0191	85		2)	
		47613.4851		LB	AG	+0.0205	85		2)	
		47614.4785	/	LB	AG	+0.0196	85		2)	
		47614.4795	/	LV	AG	+0.0206	85		2)	
		47616.3238		LV	AG	+0.0182	85		2)	
		47616.3244		LB	AG	+0.0188	85		2)	
		47616.4666	/	LV	AG	+0.0190	85		2)	
		47616.4679	/	LB	AG	+0.0203	85		2)	
		47616.6048		LV	AG	+0.0151	85		2)	
XZ	Leo	47609.3852		LV	AG	+0.0066	85		2)	
		47609.3865		LB	AG	+0.0079	85		2)	
		47612.3100		LV	AG	+0.0050	85		2)	
		47612.3113		LB	AG	+0.0063	85		2)	
		47613.5278	/	LB	AG	+0.0035	85		2)	
		47613.5294	/	LV	AG	+0.0051	85		2)	
		47614.5054	/	LV	AG	+0.0056	85		2)	

Stern	Min	JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.
XZ	Leo	47614.5064 /	LB	AG	+0.0066	85		2)
		47616.4579 /	LV	AG	+0.0072	85		2)
		47616.4585 /	LB	AG	+0.0078	85		2)
AM	Leo	47611.4401 /	LE	RI SH	-0.0032	85		4)
		47616.3743	LE	RI SH	-0.0073	85		4)
SW	Lyn	47612.425		KB	+0.009	85		
		47614.356		KB	+0.008	85		
UU	Lyn	47565.380	F	MS KI	-0.004	85		5)
UV	Lyn	47276.386		PI	+0.006	85		
FL	Lyr	47304.433		SF	-0.023	85		
beta	Lyr	47411.00 /		SV	+1.85	85		7)
U	Oph	47353.432		RZ	+0.012	85		
FF	Ori	47553.331	F	MS KI	+0.015	85		5)
		47562.389	F	MS KI	+0.021	85		5)
FI	Ori	47510.493	F	VI	+0.016	85		6)
V392	Ori	47566.279	F	MS KI	+0.016	85		5)
AW	Peg	46354.512		SD	-0.045	87		
BX	Peg	47405.491 /	F	MS KI	-0.003	87		5)
DI	Peg	47387.461		EP	+0.001	87		
DK	Peg	47387.478	:	F MS KI	+0.010	87		5)
IZ	Per	47579.328		SF	-0.025	87		
LX	Per	46469.456		SD	-0.049	87		
beta	Per	47525.332		HO	+0.000	87		
RZ	Sct	47348.71		AW	+0.91	87		7)
		47378.55		RZ	+0.37	87		7)
Y	Sex	47592.4565 /	LB	AG	+0.0776	87	+0.0776 8)	2)
		47592.4567 /	LV	AG	+0.0778	87	+0.0778 8)	2)
CD	Tau	47567.330		SF	-0.017	87		
EQ	Tau	47436.597 /	:	F MS	-0.003	87		6)
		47469.366		F MS KI	-0.004	87		5)
		47470.390		F MS KI	-0.004	87		5)
GR	Tau	47531.352		GI	+0.000	87		
		47559.291		GI	-0.001	87	-0.001 10)	
W	Uma	47552.375		GI	+0.008	87		
		47626.432		KB	-0.003	87		
TX	Uma	47531.503		RZ	+0.058	87		
XY	Uma	47568.340	F	MS KI	+0.005	87		5)
AF	Uma	47569.372	F	MS KI	+0.372	87		5)
AG	Vir	47653.408		SF	-0.008	87		
Z	Vul	47388.448		EP	-0.005	87		
		47388.448		OT	-0.005	87		
QS	Vul	47437.05		LV AG	+0.00			2)
		47437.05		LB AG	+0.00			2)

B e m e r k u n g e n :

: = unsicher

/ = Nebenminimum

L = Lichtelektrische Beobachtung Filter : ohne

LV = Lichtelektrische Beobachtung Filter : V

LB = Lichtelektrische Beobachtung Filter : B

F = Fotografische Beobachtung

K = Keilphotometer Beobachtung

1) = Photometer: 1P21 Filter: V = GG11

B = BG3 + GG13

2) = Photometer: EMI 9781B Filter: V = GG495/1mm

B = BG12 / 1mm + GG385 / 2mm

1 . B E D E C K U N G S V E R A E N D E R L I C H E

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- 3) = Photometer: SSP3
 4) = Photometer: Schnitzer
 5) = Auswertung: Messung mit Mikrophotometer
 6) = Auswertung: Schaetzung auf Kleinbild
 7) = reduzierte Ergebnisse
 8) = BAV - Rundbrief 32, 36 ff
 9) = BAV - Rundbrief 33, 152 ff
 10) = BAV - Rundbrief 35, 1 ff
 11) = BAV - Rundbrief 35, 41 ff
 12) = BAV - Rundbrief 32, 122 ff
 13) = BAV - Mitteilung Nr. 48 = IBVS No. 3213
 14) = BAV - Mitteilung Nr. 51 = IBVS No. 3234

2 . R R - L Y R A E - S T E R N E

7

Stern	Max	JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.
SW	And	47397.454		KB	-0.084	85	+0.006	9)
		47405.417		WU	-0.082	85	+0.008	9)
		47436.383		PI	-0.076	85	+0.015	9)
		47525.306		HO	-0.051	85	+0.043	9)
+400060	And	47529.395		WU	+0.000			
X	Ari	47538.309		PI	+0.071	85	+0.008	10)
		47538.341		KB	+0.103	85	+0.040	10)
		47540.294		KB	+0.103	85	+0.039	10)
		47551.351		PI	+0.090	85	+0.027	10)
RV	Ari	47529.396		WU	+0.008	85		
TZ	Aur	47579.347	F	MS KI	+0.011	85		5)
		47615.378	F	MS KI	+0.008	85		5)
RS	Boo	47289.443		BR	-0.007	85		14)
		47295.488	F	MS	+0.001	85	+0.007	14)
		47346.427		WU	-0.001	85	+0.006	14)
		47661.497		SD	-0.009	85	-0.002	14)
UU	Boo	47327.442		WU	+0.046	85		
		47656.432		WU	+0.053	85		
UY	Boo	47616.443	F	MS KI	+0.019	85		5)
XX	Boo	47596.503	F	MS KI	+0.010	85		5)
AE	Boo	47330.420		PS	+0.077	85		
CM	Boo	47596.503	F	MS KI	+0.018	85		5)
VZ	Cnc	46525.418		SD	-0.002	85		
		46533.438		SD	-0.008	85		
		47530.4926		LV QU	-0.0067	85		3)
		47555.4657		LV QU	-0.0045	85		3)
		47565.4570		LV QU	-0.0016	85		3)
		47566.5302	L	RI SH	+0.0014	85		4)
		47578.309		SF	+0.008	85		
		47581.334		SF	+0.001	85		
		47591.3154		LV QU	-0.0059	85		3)
		47591.4907		LV QU	-0.0090	85		3)
		47592.393		SF	+0.001	85		
		47596.313		SF	-0.003	85		
		47603.448		SF	-0.002	85		
		47604.341		SF	-0.001	85		
		47612.3673		LV QU	-0.0010	85		3)
		47615.402		SF	+0.002	85		
		47619.319		SF	-0.005	85		

Stern		Max	JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.
W	CVn	47654.498			SD	-0.083	85		
RX	CVn	47295.376			WU	-0.041	85		
RZ	CVn	47656.497			WU	-0.147	85		
X	CMi	47566.421	:		PS	+0.049	85		
		47590.399	:		PS	+0.034	85		
RV	CMi	47566.380	:		PS	+0.123	85		
		47591.399			PS	+0.122	85		
AA	CMi	47540.450		F	MS KI	+0.010	85		5)
		47591.434	:		PS	+0.027	85		
		47592.378	:		PS	+0.019	85		
		47612.387	:		PS	+0.022	85		
AL	CMi	47540.499	/		PS	+0.029	85		
		47555.362	/		PS	+0.028	85		
		47566.377	/		PS	+0.033	85		
YZ	Cap	47432.294			WU	-0.045	85		
RZ	Cet	47503.421			WU	-0.014	85		
S	Com	47553.484		F	MS KI	-0.050	85		5)
U	Com	47614.440		F	MS KI	+0.035	85		5)
ST	Com	47295.410			WU	-0.014	85		
RV	CrB	47346.403			WU	-0.024	85		
		47349.387			WU	-0.024	85		
TV	CrB	47346.433			WU	+0.012	85		
UY	Cyg	47392.422	:		KB	+0.043	85		
XZ	Cyg	46699.448			SD	+0.224	85	+0.004	14)
		47265.457			HO	+0.126	85	+0.004	14)
		47327.531			BK	+0.129	85	+0.018	14)
		47349.444			WU	+0.107	85		14)
		47391.426			PI	+0.086	85	-0.014	14)
		47391.447			KB	+0.107	85	+0.007	14)
		47469.368			PI	+0.089	85	+0.003	14)
		47656.485			WU	+0.059	85	+0.006	14)
RW	Dra	47369.445			WU	+0.060	85		
SU	Dra	47592.501			TH	+0.027	85		
		47604.361			BD	+0.000	85		
SW	Dra	47368.485			WC	+0.028	85		
		47368.488			WU	+0.031	85		
VZ	Dra	47647.467		F	MS KI	-0.013	85		5)
XZ	Dra	47275.572		F	MS	-0.051	85	-0.021	9)
		47296.582		F	MS	-0.007	85	+0.023	9)
		47379.505			KB	+0.005	85	+0.036	9)
		47391.433			KB	+0.021	85	+0.052	9)
		47432.381			WU	-0.010	85	+0.021	9)
DD	Dra	47371.4397		LV	AG	-0.0803	85	+0.0003	15)
		47371.4411		LB	AG	-0.0789	85	+0.0017	15)
		47405.416			WU	+0.184	85	-0.003	15)
RT	Equ	47391.460			PS	-0.077	85		
		47412.381			PS	-0.060	85		
RX	Eri	47551.300			PS	+0.021	85		7)
SV	Eri	41551.20	:		PS	+0.35	85	+0.27	9)
TW	Her	47321.437			KB	-0.002	85		7)
VX	Her	47308.495			WU	+0.213	85		
		47329.446			KB	+0.217	85		
		47656.402			WU	+0.215	85		
DY	Her	47349.440			WU	-0.009	85		
RR	Leo	47267.426			HO	+0.011	85	+0.017	13)
SS	Leo	47626.472			KB	+0.020	85		
ST	Leo	47596.479			TH	+0.005	85		

Stern		Max	JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.	
SU	Leo	47655.376	:		PS	-0.040	85			
SZ	Leo	47655.388			PS	+0.048	85			
AE	Leo	47655.396			PS	-0.041	85			
BX	Leo	47611.442		F	MS KI	+0.052	85		5)	
Y	LMI	47592.415	/	F	MS KI	+0.028	85		5)	
TV	Lib	47656.460			WU	-0.001	85			
SZ	Lyn	47262.404			RI	+0.012	85			
		47295.421			WZ	+0.003	85			
		47296.390			WZ	+0.008	85			
		47563.249			BR	+0.002	85			
RR	Lyr	46977.432			GE	-0.226	85	-0.058 11)		
		47351.573			RZ	-0.217	85	-0.031 11)		
		47355.540			KB	-0.218	85	-0.032 11)		
		47367.4213		LB	AW	-0.2412	85	-0.0539 11)	1)	
		47367.4213		LV	AW	-0.2412	85	-0.0539 11)	1)	
		47371.403			KB	-0.228	85	-0.040 11)		
		47380.478		F	OT	-0.222	85	-0.035 11)		
		47380.487			OT	-0.213	85	-0.026 11)		
		47380.491			RZ	-0.209	85	-0.022 11)		
		47388.409			RZ	-0.228	85	-0.039 11)		
		47388.423		:	PI	-0.214	85	-0.025 11)		
		47388.442			OT	-0.195	85	-0.006 11)		
		47389.548			RZ	-0.222	85	-0.034 11)		
		47392.366			PI	-0.239	85	-0.050 11)		
		47392.3803		LV	QU	-0.2244	85	-0.0358 11)	3)	
		47392.386			RZ	-0.219	85	-0.030 11)		
		47405.414			RZ	-0.229	85	-0.039 11)		
		47413.337		:	PI	-0.242	85	-0.052 11)		
		47426.3995		LB	AW	-0.2173	85	-0.0270 11)	1)	
		47426.3995		LV	AW	-0.2173	85	-0.0270 11)	1)	
47468.3290		LV	AW	-0.2360	85	-0.0435 11)	1)			
47468.332		:	PI	-0.233	85	-0.041 11)				
47468.3394		LB	AW	-0.2256	85	-0.0331 11)	1)			
47477.393			RZ	-0.242	85	-0.049 11)				
RZ	Lyr	47346.451			WU	-0.001	85			
		47366.387			WU	-0.003	85			
CN	Lyr	47366.442			WU	+0.021	85			
FN	Lyr	47605.544		F	MS KI	+0.001	85		5)	
IO	Lyr	47604.587		F	MS KI	+0.008	85		5)	
LX	Lyr	47664.426		F	MS KI	-0.042	85		5)	
V445	Oph	47308.529			WU	+0.001	85			
		47349.424			WU	+0.003	85			
V785	Oph	47673.423			WU	-0.009	85			
AV	Peg	47391.542			KB	+0.019	87	+0.064 9)		
BH	Peg	47060.378			PS	-0.023	87			
		47365.488			PS	-0.026	87			
		47432.351			WU	+0.005	87			
DH	Peg	47086.506			KT	+0.001	87			
		47090.367			KT	-0.004	87			
DY	Peg	47090.442			KT	-0.001	87			
		47091.384			KT	-0.008	87			
		47385.516			OT	+0.013	87			
		47385.585			OT	+0.009	87			
		47387.548			EP	+0.003	87			
		47388.434			OT	+0.014	87			
		47525.245			HO	+0.015	87			
		46940.392			WU	-0.012	87			
		VY	Ser							

Stern		Max	JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.
VY	Ser	47304.557	:		BK	-0.035	87		
		47307.430			BK	-0.018	87		
		47327.425			WU	-0.018	87		
RV	UMa	47267.430			HO	-0.006	87		
		47297.405			BR	+0.013	87		
		47326.427			KB	+0.015	87		
		47613.349			BD	+0.017	87		
		47661.567			SD	+0.024	87		
TU	UMa	47609.494			KB	-0.020	87		
		47613.388			BD	-0.030	87		
		47613.389			KB	-0.029	87		
BB	Vir	47654.558			SD	+0.107	87		
		47655.493			SD	+0.100	87		

B e m e r k u n g e n :

- : = unsicher
 L = Lichtelektrische Beobachtung Filter: ohne
 LV = Lichtelektrische Beobachtung Filter: V
 LB = Lichtelektrische Beobachtung Filter: B
 F = Fotografische Beobachtung
 1) = Photometer: 1P21 Filter: V = GG12
 2) = Photometer: Schnitzer
 3) = Photometer: Mueller
 4) = Photometer: SSP3
 5) = Auswertung: Messung mit Mikrophotometer
 6) = Auswertung: Schaetzung auf Kleinbild
 7) = reduzierte Ergebnisse
 9) = Krakauer Katalog (SAC) 1988
 10) = BAV - Rundbrief 31, 84 f
 11) = BAV - Rundbrief 34, 1 ff
 12) = BAV - Rundbrief 34, 145 ff
 13) = BAV - Rundbrief 36, 109 ff
 14) = BAV - Rundbrief 36, 157 ff
 15) = BAV - Mitteilung Nr. 48 = IBVS No. 3213

Stern		Max	JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.
U	Aql	47411.42			SM	+0.56	85		1)
		47418.53			RI	+0.65	85		1)
SZ	Aql	47406.30			TH	+0.77	85		1)
		47458.20	:		KB	+1.26	85		1)
TT	Aql	47456.25			KB	+0.48	85		1)
FF	Aql	47224.76	:		RI	+1.57	85		1)
		47415.25			RI	-0.19	85		1)
		47433.44			SC	+0.11	85		
FN	Aql	47388.37	:		TH	+2.40	85		1)
		47373.54			SM	+0.03	85		1)
RT	Aur	47230.40			PI	+0.33	85		1)
		47278.96			SC	+0.42	85		
		47551.24			SC	+0.55	85		1)
		47551.29			SM	+0.60	85		1)
RX	Aur	47572.38			SM	-0.04	85		1)

Stern		Max	JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.
BK	Aur	47562.90	:		KB	+0.01	85		1)
RY	Cma	47570.33			SM	+0.44	85		1)
RW	Cas	47528.73			KB	-0.78	85		1)
SU	Cas	47412.38			SM	+0.47	85		1)
CP	Cep	47466.49			KB	+1.95	85		1)
delta	Cep	47253.40			PI	-0.13	85		1)
		47414.00			SM	-0.52	85		1)
X	Cyg	46337.85			RI	+0.35	85		1)
		46714.88			RI	+0.50	85		1)
		47059.12			RI	+0.63	85		1)
		47418.33			SM	-0.66	85		1)
		47419.56			RI	+0.57	85		1)
SU	Cyg	47355.42			SM	+0.44	85		1)
		47370.57			HH	+0.20	85		1)
TX	Cyg	47473.20			KB	+0.78	85		1)
VX	Cyg	47467.75			KB	-0.31	85		1)
V532	Cyg	47370.53			TH	-0.26	85		1)
W	Gem	47566.28			SM	-0.49	85		1)
RZ	Gem	47564.20			KB	+0.05	85		1)
zeta	Gem	47237.10			PI	+0.23	85		1)
		47552.28			SM	+0.73	85		1)
V	Lac	47083.77			TH	-2.15	85		1)
Z	Lac	47377.60			TH	+0.29	85		1)
RR	Lac	47159.35			TH	+0.37	85		1)
		47397.03	:		TH	+0.65	85		1)
T	Mon	47325.50			TH	+0.66	85		1)
		47541.61			HH	+0.57	85		1)
		47568.33			SM	+0.26	85		1)
		47569.35			KB	+1.28	85		1)
SV	Mon	47572.38			KB	+0.31	85		1)
Y	Oph	47387.42			SM	-0.50	85		1)
SV	Per	47567.55			KB	-0.07	87		1)
AS	Per	47521.930			KB	+0.042	87		1)
AW	Per	47502.60	:		TH	-2.44	87		1)
		47550.28			SM	-0.01	87		1)
		47576.226			KB	+0.084	87		1)
BM	Per	47538.07	:		KB	+2.44	87		1)
S	Sge	45252.68			RI	+0.59	87		1)
		46334.14			RI	+0.76	87		1)
		46702.77			RI	+0.58	87		1)
		47054.83			RI	+0.59	87		1)
		47407.26			RI	+0.97	87		1)
		47407.38			SM	+1.09	87		1)
Y	Sgr	47413.38			SM	+0.10	87		1)
RU	Sct	47448.88	:		KB	+1.50	87		1)
T	Vul	46974.70			MN	+0.25	87		1)
		47387.05			MN	+0.10	87		1)
		47391.50			SM	+0.12	87		1)
		47409.30			RI	+0.17	87		1)
		47413.90			AW	+0.34	87		1)
U	Vul	47409.11			RI	+0.41	87		1)
SV	Vul	47366.00			HH	+2.96	87		1)

B e m e r k u n g e n :

: = unsicher

1) = reduzierte Ergebnisse

4 . M I R A S T E R N E

Stern	Phase	JD 24..	Magn.	Beob.	Stern	Phase	JD 24..	Magn.	Beob.
T	And	Max 47462	7.65	HH	R	Aur	Max 47220	7.25	PI
		Max 47463	7.7	KB	W	Aur	Max 47540	8.8	KB
U	And	Max 47474	9.3	PI	X	Aur	Max 47230	8.7	PI
V	And	Max 47173	9.9	MX			Max 47232	8.6	MX
		Max 47435	8.9	KB			Max 47555	8.7	MO
W	And	Max 47458	8.3	MO	SZ	Aur	Max 47246	11.9	MX
		Max 47461	7.75	KB	VX	Aur	Max 47238	9.0	MX
		Max 47463	8.2	HH	HT	Aur	Max 47219	9.5	MX
		Max 47464	8.05	SF	R	Boo	Min 47330	13.0	MX
		Max 47474	7.75	SH			Max 47426	8.0	HH
Y	And	Max 47512	9.5	MX			Max 47638	6.8	RI
ST	And	Max 47467	8.7	HH	RR	Boo	Max 47330	9.3	MX
SX	And	Max 47172	10.1	MX 3)	RT	Boo	Max 47298	9.5	MX
TU	And	Min 47205	13.0	MX	T	Cam	Max 47530	8.4	MO
		Min 47530	12.9	MX	X	Cam	Min 47208	12.6	MX
BU	And	Max 47170	9.7	MX 2)			Max 47274	8.6	MX
R	Aqr	Max 47450	7.0	HH			Min 47338	12.5	MX
R	Aql	Max 47396	6.0	GI			Max 47407	7.6	MX
		Max 47398	6.15	HH			Min 47489	12.2	MX
		Max 47399	6.4	PI	V	Cnc	Max 47565	8.0	HH
		Max 47399	6.1	RI	R	CVn	Min 47327	11.3	MX
		Max 47399	5.8	SH	U	CVn	Max 47274	10.75	MX
		Max 47400	6.1	HF	RT	CVn	Max 47354	10.7	MX
		Max 47403	6.2	AW	S	CMi	Max 47205	6.75	PI
		Max 47403	6.0	KR			Max 47540	7.4	AW
X	Aql	Max 47392	9.5	KB			Max 47541	7.2	HH
		Max 47395	9.8	MX			Max 47547	7.75	KB
RV	Aql	Max 47435	9.0	KB	VX	CMi	Max 47600	10.5	PS
		Max 47439	8.8	MX	R	Cas	Max 47493	6.35	SF
R	Ari	Max 47487	7.5	SH			Max 47505	6.5	KR
		Max 47488	7.75	SF	S	Cas	Max 47524	9.55	MX
		Max 47490	7.65	HH	T	Cas	Max 47262	7.6	MX
		Max 47494	7.7	PI			Max 47269	8.0	KR

Stern	Phase	JD 24..	Magn.	Beob.	Stern	Phase	JD 24..	Magn.	Beob.		
T	Cas	Min	47445	12.0	MX	RU	Her	Max	47327	8.5	MX
V	Cas	Min	47240	12.3	MX	RV	Her	Max	47419	9.8	MX
		Min	47455	11.8	MX	RY	Her	Max	47440	8.5	MX
		Max	47571	7.55	HH	SS	Her	Max	47355	8.6	MX
W	Cas	Min	47269	11.7	MX			Min	47422	12.8	MX
		Max	47436	9.3	MX	SY	Her	Max	47350	8.9	MX
RR	Cas	Max	47415	11.5	MX			Max	47351	8.75	KB
VZ	Cas	Max	47230	9.7	MX	VY	Her	Max	47331	10.7	MX
T	Cep	Max	46941	5.5	PI	XZ	Her	Max	47300	11.0	MX
		Min	47130	10.5	PI	AE	Her	Max	47352	10.6	MX
		Max	47334	6.1	MX 2)	S	Lac	Max	47406	7.95	HH
		Max	47339	5.8	MK 2)	R	Leo	Max	47292	4.85	SF
		Max	47340	5.7	PI			Max	47293	6.0	AW
		Max	47343	5.75	AW			Max	47294	5.55	SH
		Max	47344	5.5	KR 2)			Max	47300	5.8	RI
o	Cet	Max	47166	4.7	MX			Max	47305	5.95	HH
		Max	47501	3.9	AW			Max	47320	5.8	KM
		Max	47508	3.3	SH			Max	47616	5.6	RI
		Max	47510	3.9	MO	S	Leo	Max	47189	10.0	MX
X	CrB	Max	47300	9.3	MX	RS	Leo	Max	47303	10.6	MX
U	Cyg	Max	47317	7.3	AW	X	Lyn	Max	47293	11.0	MX
RT	Cyg	Max	47436	7.1	SH	W	Lyr	Min	47380	12.1	MX
TY	Cyg	Max	47509	10.0	MX			Max	47468	7.55	HH
CU	Cyg	Min	47495	14.2	MX			Max	47469	7.8	MO
chi	Cyg	Max	47474	4.6	SF			Max	47473	8.0	MX
		Max	47476	4.4	AW	Z	Lyr	Max	47299	9.7	MO
		Max	47476	4.3	RI	Y	Mon	Max	47543	8.75	KB
		Max	47478	4.75	HH	X	Oph	Max	47401	7.1	SH
		Max	47479	4.55	SU	RU	Oph	Max	47339	9.2	MX
		Max	47481	4.2	PI	SS	Oph	Max	47406	8.2	MX
		Max	47484	4.5	KR	U	Ori	Max	47475	6.8	AW
		Max	47485	4.05	SH			Max	47480	6.7	HH
S	Del	Max	47430	8.7	PI			Max	47482	6.5	SH
		Max	47436	8.6	HH	RR	Ori	Max	47513	9.45	KB
X	Del	Max	47438	9.2	PI			Max	47513	9.5	MX
		Max	47445	9.1	KB	T	Peg	Max	47430	9.3	MO
R	Dra	Min	47372	12.8	MX			Max	47432	9.1	HH
		Max	47485	7.6	MO			Max	47434	8.9	KB
		Max	47486	7.4	SU	Z	Peg	Max	47410	8.0	PI
W	Dra	Max	47492	9.9	MX			Max	47420	7.8	HH
T	Gem	Max	47562	8.5	KB	RR	Peg	Max	47441	9.5	KB
		Max	47572	8.85	HH	RZ	Peg	Max	47427	7.95	HH
X	Gem	Max	47246	8.4	MX	R	Per	Max	47452	8.85	HH
		Max	47502	8.15	HH			Max	47453		SF
S	Her	Min	47363	13.7	MX	R	Sgr	Max	47381	6.9	HH
T	Her	Max	47285	8.15	HH	R	Ser	Max	47285	6.2	SH 5)
		Max	47290	8.1	KO			Max	47288	6.3	RI
		Min	47375	13.0	MX			Max	47289	6.5	HH
		Max	47452	7.2	SH			Max	47292	7.0	AW
		Max	47456	7.4	MX			Max	47297	6.6	MO
		Max	47458	7.4	HH	S	Ser	Max	47291	9.2	MO
		Max	47626	8.4	HH	S	Tau	Max	47200	10.4	MX
U	Her	Max	47422	7.1	MO	V	Tau	Max	47205	9.8	MX
		Max	47424	7.3	PI			Max	47547	9.2	KB
		Max	47430	7.15	HH			Max	47548	9.5	SH
W	Her	Min	47430	13.6	MX	R	Tri	Min	47513	12.6	MX
RU	Her	Max	47326	8.5	PI	R	UMa	Min	47281	12.3	MX

Stern	Phase	JD 24..	Magn.	Beob.	Stern	Phase	JD 24..	Magn.	Beob.		
R	UMa	Max	47394	7.05	KR	RS	UMa	Max	47309	9.2	MX
S	UMa	Min	47249	11.7	MX	T	UMi	Min	47357	14.6	MX
		Max	47357	8.05	MX	R	Vir	Min	47251	11.3	MX
		Max	47578	7.45	AW			Max	47321	7.0	SH
T	UMa	Min	47314	13.4	MX			Max	47326	7.0	AW
		Max	47408	8.3	HH			Max	47327	7.2	MX
		Max	47408	7.9	KR			Max	47617	7.35	HH
		Max	47416	8.4	MX	S	Vir	Max	47327	7.0	AW
X	UMa	Max	47206	10.1	MX	R	Vul	Max	47499	7.3	SF
RR	UMa	Max	47320	9.9	MX						

B e m e r k u n g e n :

: = unsicher

1) = Buckel im Abstieg

2) = Welle im Anstieg

3) = Stufe im Anstieg

4) = Stufe vor dem Maximum

5) = Welle im Abstieg

6) = Stillstand im Anstieg

Alle Helligkeiten im Harvard-System (AAVSO charts)

Stern	Phase	JD 24..	Magn.	Beob.	Stern	Phase	JD 24..	Magn.	Beob.		
S	Aql	Max	47389	9.1	KB	CH	Cyg	Min	47345	9.1	TH
U	Boo	Min	47397	12.4	MX			Max	47390	7.7	TH
V	Boo	Max	47371	7.85	GI			Max	47412	8.1	HH
		Max	47381	8.1	PI			Min	47458	8.7	HH
BC	CMi	Max	47580	6.24	SF			Min	47480	8.7	TH
		Min	47596	6.52	SF			Max	47504	7.6	TH
		Max	47606	6.34	SF			Max	47506	7.7	HH
		Min	47616	6.54	SF	EU	Del	Max	47377	5.8	MN
		Max	47633	6.34	SF			Max	47384	5.6	PI
SS	Cep	Min	47119	7.4	TH			Min	47418	6.6	PI
		Max	47144	7.0	TH			Max	47450	5.8	MN
		Min	47171	7.5	TH			Max	47458	5.7	PI
		Min	47242	7.5	TH	RY	Dra	Max	47268	6.3	TH
		Max	47276	7.1	TH			Min	47310	6.9	TH
		Max	47325	7.1	TH			Max	47354	6.5	TH
		Min	47355	7.8	TH	UX	Dra	Min	47122	6.8	TH
		Max	47385	7.1	TH			Max	47143	6.3	TH
		Min	47463	7.6	TH			Min	47189	6.8	TH
		Max	47493	7.1	TH			Max	47262	6.1	TH
AR	Cep	Max	47288	7.2	TH			Min	47331	6.9	TH
		Min	47322	7.8	TH			Max	47395	6.1	TH
		Max	47348	7.4	TH			Min	47501	6.9	TH
		Min	47380	7.9	TH	SS	Gem	Max	47479	8.7	MO
		Max	47430	6.9	TH			Min	47511	9.4	MO
AF	Cyg	Max	47448	6.4	PI			Max	47529	8.9	MO
		Min	47495	7.3	SC			Min	47551	9.4	MO
		Max	47532	6.3	SC			Max	47572	8.6	MO
		Min	47580	7.5	HH			Min	47597	9.5	MO
		Max	47621	6.1	HH			Max	47616	8.3	MO

Stern	Phase	JD 24..	Magn.	Beob.	Stern	Phase	JD 24..	Magn.	Beob.		
IS	Gem	Max	47571	5.1	SF	R	Sct	Min	47370	6.1	RI
		Min	47582	5.6	SF			Max	47386	4.71	HF
		Max	47602	5.3	SF			Max	47391	5.0	KB
		Min	47614	5.6	SF			Max	47392	5.1	AW
		Max	47623	5.3	SF			Max	47392	8.18	KR
eta	Gem	Min	47644	5.6	SF	Max	47393	5.15	HH		
		Min	47240	8.2	RZ 2)	Max	47394	5.4	PI		
		Min	47391	5.3	SC	Max	47397	4.75	MO		
		Max	47525	6.3	HH	Max	47398	4.9	RI		
		Max	47546	5.8	AW	Min	47435	9.30	KR		
U	Mon	Max	47548	5.8	HH	Min	47435	7.1	SH		
		Min	47572	6.8	HH	Min	47436	6.75	KB		
		Min	47573	6.8	SC	Min	47436	7.1	PI		
		Max	47593	5.8	HH	Min	47437	6.65	HH		
		Max	47574	7.2	HH	Min	47437	7.1	SG		
X	Mon	Max	47574	7.2	HH	Min	47437	7.1	SG		
		Max	47182	10.5	MX	Min	47438	7.0	RI		
		Min	47212	11.25	MX	Min	47442	6.9	AW		
TX	Per	Max	47393	10.0	KB	RV	Tau	Max	47541	9.7	MO
		Min	47436	11.05	KB	Min		47565	10.4	MO	
		Min	47298	6.35	SG	Max		47575	9.3	MO	
R	Sct	Min	47320	5.3	SH	Min	47594	10.3	MO		
		Max	47321	5.3	SG	Max	47617	9.5	MO		
		Max	47336	5.05	SH	Z	UMa	Min	47305	8.4	SO
		Max	47343	6.30	KR	Min		47309	8.0	SU	
		Min	47367	7.24	KR	Max		47347	7.25	SO	
		Min	47368	5.9	SG	Max		47527	6.75	SU	
		Min	47368	5.8	SH						

B e m e r k u n g e n :

: = unsicher

1) = Buckel im Abstieg

2) = reduziertes Ergebnis

Alle Helligkeiten im Harvard-System (AAVSO charts)

6 . E R U P T I V E U N D I R R E G U L A E R E

Stern	Phase	JD 24..	Magn.	Beob.	Stern	Phase	JD 24..	Magn.	Beob.		
RX	And	Max	47138	10.4	KT	RW	Aur	Min	47574	11.5	MO
		Max	47153	11.6	KT	Max		47613	10.5	MO	
		Max	47167	12.0	KT	SS	Aur	Max	47266	10.4	KT
		Max	47414	10.6	KT			Max	47266	10.6	MO
		Max	47414	10.8	MO			Max	47565	11.0	KT
		Max	47475	11.0	MO			Max	47565	11.5	MO
		Max	47511	10.3	MO	Max	47616	10.7	KT		
		Max	47530	10.7	KT	Max	47619	10.8	MO		
		Max	47546	10.7	KT	Z	Cam	Max	47434	10.9	MO
		Max	47551	11.1	MO			Max	47466	13.0	MO
		Max	47573	10.8	MO			Max	47537	10.5	MO
		Max	47468	11.7	KT			Max	47563	10.7	MO
DX	And	Max	47555	11.8	KT	Max	47586	10.9	MO		
VY	Aqr	Max	47407	10.0	KT	Max	47607	11.8	MO		
RW	Aur	Max	47563	10.6	MO	YZ	Cnc	Max	47206	12.8	KT
		Max	47570	10.6	MO	Max		47228	12.7	KT	

Stern	Phase	JD 24..	Magn.	Beob.	Stern	Phase	JD 24..	Magn.	Beob.		
YZ	Cnc	Max	47267	12.7	KT	SS	Lep	Max	47555	4.9	TH
		Max	47274	12.6				Min	47564	5.2	
SV	CMi	Max	47562	12.5	KT	XX	Oph	Min	47278	9.45	VG
R	CrB	Min	47455	10.5	AW			Max	47380	9.09	VG
SS	Cyg	Max	47261	: 8.3	MO	CN	Ori	Max	47530	: 12.7	KT
		Max	47342	8.7	PI			Max	47552	12.5	KT
		Max	47385	8.3	MO			Max	47567	12.0	KT
		Max	47385	8.5	PI	CZ	Ori	Max	47561	12.7	KT
		Max	47387	8.85	KB			TZ	Per	Max	47538
		Max	47431	8.3	MO					Max	47552
		Max	47432	8.4	PI			Max	47578	: 12.5	KT
		Max	47434	8.6	KB	FO	Per	Max	47086	: 13.1	KT
		Max	47474	8.8	KB					Max	47530
		Max	47474	8.5	MO			Max	47555	12.8	KT
		Max	47474	8.7	PI	KT	Per	Max	47172	11.9	KT
		Max	47510	8.2	MO					Max	47197
		Max	47553	8.45	MO			Max	47561	12.3	KT
		Max	47586	: 8.3	MO	TY	Psc	Max	47173	12.8	KT
		Max	47618	8.3	MO					Max	47551
V1819	Cyg	Max	47989	: 12.45	KT	CQ	Tau	Max	47206	9.8	KT
U	Gem	Max	47272	8.9	MO					Max	47263
		Max	47594	9.8	KB			Min	47538	: 10.9	KT
AW	Gem	Max	47561	12.7	KT			Min	47566	10.9	MO
X	Leo	Max	47206	12.2	KT			Max	47570	10.1	MO
		Max	47274	12.0	KT			Max	47581	9.5	MO
		Max	47562	12.0	KT			Max	47592	: 9.4	KT
		Max	47615	12.1	KT	SU	Uma	Max	47563	12.0	MO
SS	Lep	Min	47525	: 5.2	TH					Max	47619
		Min	47549	: 5.2	TH			Max	47639	11.3	MO

B e m e r k u n g e n :

: = unsicher

Alle Helligkeiten im Harvard-System (AAVSO charts)